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Double Focusing Beta-Ray Spectrometer

field are shown in Fig 3, where the full curve is the theoretical field and the points are the measured values. The agreement, within the important region between r = 19 to 41 cm, is to within 0.3%. This does not impose any limitations on the resolution. In order to eliminate the possible effects of incomplete demagnetization before starting the measurements, a standard source was used for calibration purposes whenever high accuracy was demanded. Thus, a reference point for the energy scale was obtained. The linear dependence of the intensity of the magnetic field on the current was checked and found to be better than 0.05%. The axial focus of the instrument was found photographically. However, the axial and radial foci do not necessarily fully coincide, and it is most important that the detector should be at the radial focus. This was determined experimentally. Table 3 gives the relation between the radial aperture, the transmission and the theoretical and experimental half-widths of a spectral

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Double Focusing Beta-Ray Spectrometer

Geiger-Müller counter with a side window, which forms the exit slit of the spectrometer. The window is interchangeable. The counter is about 45 mm long and 20 mm in diameter, in order to reduce the background counting rate. The counter is shielded by lead approximately 18 cm thick. The current, whose source is a battery, is regulated by an accurate rotary rheostat. It is measured in terms of the potential drop on a normal resistance with a 5-decade potentiometer. The stability of the current is better than $1:10^4$, which is adequate for a resolution of 0.1%. The intensity of the magnetic field is measured with high accuracy by a permalloy probe (Ref 14). The shape of the magnetic field was investigated by a ballistic method in the region from r = 18 to 42 cm. The field differed considerably from that theoretically predicted. This is due to the inaccuracy in the shaping of the pole-pieces. It was corrected by changing the ratio of the currents, as described above. The experimental values of this

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69144
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E024/E520

Double Focusing Beta-Ray Spectrometer

With 240 V applied in series, electrons up to 3.5 MeV can be focused. No cooling is necessary. The vacuum chamber is formed by the pole-pieces A and B and the brass cylinder F (internal diameter 91 cm, height 40 cm, thickness 2 cm). Rubber rings make a vacuum-tight joint between the pole-pieces and the cylinder F. A vacuum of approximately 7×10^{-6} mm Hg was used. The radioactive source is introduced into the spectrometer through windows (in the yoke and in the vacuum chamber) situated in the 6 cm gap between the second and third windings. The specimen holder DP slides into its operating position. There are five slits, each aluminium baffle being 10 mm thick. The first slit stops most electrons with angles larger than φ_r^{max} and φ_z^{max}; the second and fifth define the width of the beam and are at 45° relative to source and the detector, respectively. Their radial aperture is adjustable. The third and fourth slits are fixed and define φ_r^{max} and φ_z^{max}. The electrons are detected by a cylindrical

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Double Focusing Beta-Ray Spectrometer

has a focusing effect in two directions, radially and axially (Fig 1). The aberrations of this electron optical system are discussed (see also Ref 12). The magnet (Fig 2) of the present instrument is a cylindrical container comprising two pole-pieces A and B, 135 cm in diameter, and a cylindrical yoke C 41 cm high. The pole-pieces weigh approximately 900 kg and the yoke approximately 560 kg. They are all made of high-permeability, low-coercivity steel. The maximum dimensional inaccuracy is 0.15 mm, which is higher than was originally specified. Between the pole-pieces is a hollow brass cylinder D, acting as a spacer between the pole-pieces and carrying the system of baffles and slits. The magnet winding E, which is inside the yoke, is divided into four self-contained windings, each with 2300 turns of 1.8 mm diameter copper wire. By slight changes in the distribution of the current between the windings, a very useful additional control of the focusing properties is obtained. The maximum current is 2A.

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69144
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E024/E520

21,3200

AUTHORS: Plajner, Zdeněk and Malý, Luděk

TITLE: Double Focusing Beta-Ray Spectrometer /9

PERIODICAL: Československý časopis pro fysiku, Nr 1, pp 47-55, 1960

ABSTRACT: It has been shown theoretically (Ref 10) that in a magnetic field:

$$H(r) = H(r_o)\left(\frac{r_o}{r}\right)^n \quad \text{for} \quad 0 < n < 1, \tag{1}$$

with a plane of symmetry at $z = 0$, a stable orbit for charged particles exists. It can be shown that, in such a magnetic field, electrons emitted from a point source lying on a circle of radius r_o will form an image of the source after traversing the angle $\Theta = \pi\sqrt{2}$. Every cylindrically symmetrical inhomogeneous magnetic field whose axial component in the plane of symmetry $z = 0$ is:

$$H_z(r,0) = H_z(r_o,0)\left\{1 + \alpha\rho + \beta\rho^2 + \ldots\right\} \tag{2}$$

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MALY, L.; APPL, H.

Electric meter and fuse boxes. p.230

ELEKTROTECHNIK (Ministerstvo tezkeho strojirenstvi)
Praha, Czechoslovakia
Vol.14, no.7, July 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11
Nov. 1959
Uncl.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

SMIY, Karel

The CO_2 shielded welding of austenitic chromium-nickel steels.
Zvaranie 13 no.10:291-295 O '64.

1. Zlatina National Enterprise, Brno.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, Karel

Technological problems in CO_2-shielded welding of pressure vessels. Zvaranie 11 no. 6:161-164 Je 62.

1. Slatina, n.p., Brno.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

KAREL MALÝ

11493* (Burning Out Defects in Steel Castings by Carbon Electrode.) Odstraňování vad ocelových odlitků uhlíkovou elektrodou. Karel Malý. *Slévárenství*, v. 2, no. 2, Feb. 1954, p. 51-53.

Mechanical cleaning in preparation for welding of defects. Efficiency of method. Photographs.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

~~Karel~~ Maly, K

Pressing powdered carbides. Karel Malý (Závod prvni pětiletky, Sumperk, Czech.). *Pokroky práškové met., Sborník konf., Brno* 1953, 460-7(Pub. 1954).—As lubricants for the press are recommended synthetic rubber in gasoline; glycerol in EtOH; paraffin in gasoline; camphor in EtOH; glycol in H_2O; or a very pure grade of wax in CCl_4.
Werner Iacobsen

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JW
1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

FADRUS, H.; MALY, J.

A contribution to the quick determination of iron content in water. Cesk. hyg. 10 no.2:97-99 Mr '65

1. Vodohospidarska sprava mesta Brna.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J., doc. PhMr. CSc.,(Brno, Jiraskova 35)

Study on tablets. Part 9. Cesk. farm. 14 no.8:401-406 O '65.

1. Katedra galenicke farmacie farmaceuticke fakulty University Komenskeho, Bratislava. Submitted March 27, 1965).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

CHALABALA, M.; MALY, J.; BURELEVA, A.; STARHA, L.

Advances in the technology of drugs during the period 1962 and 1963. Cesk. farm. 13 no.8:402-419 O '64.

1. Katedra galenicke farmacie farmaceuticke fakulty University Komenskeho.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

NEDOROST, Cestimir, inz.; FADRUS, Hubert, promovany chemik; MALY, Josef, promovany chemik; NENTVICH, Jindrich, inz.

Experiences in waste water purification in Brno. Vodni hosp 14 no.8:293-298 '64.

1. Water Resources Management Agency of the city of Brno (for all except Nentvich). 2. Hydroprojekt, Brno (for Nentvich).

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

HERESOVA-PTACKOVA, Dana, promovana geolozka; MALY, Josef, promovany geolog

Drinking water supply in central Moravia. Geol pruzkum 6 no.11: 335-336 N '64.

1. Geologicky pruzkum National Enterprise, Department of Construction Geology, Prague and Geologicky pruzkum National Enterprise, Department of Construction Geology, Brno.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, Josef, PhMr, C.Sc. (Ul. Odbojarov 12, Bratislava)

Study on the preparation and properties of some mixed lubricants for tablets. Acta pharmac 8:81-104 '63.

1. Chair of Galenic Pharmacy, Faculty of Pharmaceutics, Komensky University, Bratislava.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

NEDOROST, Cestmir, inz.; MALY, Josef, promovany chemik; FADRUS, Hubert, promovany chemik; PAZDERA, J., inz.

Experiences in waste water purification in Brno. Vodni hosp 14 no.9: 339-347 '64

1. Brno City Water Resources Management, Brno (for all except Pazdera).
2. Hydroprojekt, Brno (for Pazdera).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY,J.; VAVRINOVA, V.

Studies on tablets. V. Effect of the size of the granule and lubricants on tablets of simple granulate. Cesk. farm. 13 no.3:100-106 Mr'64.

1. Katedra galenicke farmacie farmaceuticke fakulty, UK, Bratislava.

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CZECHOSLOVAKIA

M. GRAŠLOVÁ and I. VOLF, Department of Organic and Pharmacy, Faculty of Pharmacy, Charles University, Hradec Králové.

"Advances in the Manufacture and Control of Tablets."

Prague, Československá farmacie, Vol 12, No 1, Jan 1963, pp 47-51.

Abstract: Analysis of the phenomenon of the tendency of tablets to deviations or random errors are impossible; however, they reduce the many tablets to be weighed. Use of sequential analysis techniques is urged for adoption in the Czechoslovak Pharmacopeia IX, now in preparation. Three tables, two text and 4 Western references.

1/1

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CZECHOSLOVAKIA

CHALABALA, M; MALY, J.

Chair of Galenic Pharmacy of the Pharmaceutical Faculty of UK (Katedra galenicke farmacie Farmaceuticke fakulty UK), Bratislava (for both)

Bratislava, Farmaceuticky obzor, No 6, 1963, pp 256-262

"Helpful Medicines in the Technology of Drugs II."

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CZECHOSLOVAKIA

CHALABALA, M; MALY, J.

Chair of Galenic Pharmacy of the Pharmaceutical Faculty UK (Katedra galenicke farmacie Farmaceuticke fakulty UK), Bratislava (for both)

Bratislava, Farmaceuticky obzor, No 2, 1963, pp 62-66

"Helpful Drugs in the Technology of Medicines I."

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

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MALY, J.; SANDA, M.

Pharmaceutical vehicles. V. Vehicle material as the source of incompatibility. Cesk. farm. 11 no.6:324-329 Jl '62.

1. Ustav galenicke farmacie, farmaceuticka fakulta, Brno.
(VEHICLES) (CHEMISTRY PHARMACEUTICAL)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

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MALY, Josef, Ph.Mr., C.Sc.

A contribution to the evaluation of efficiency of lubricants in tablets. Acta pharmac 5:115-163 '61.

1. Department of Galenical Pharmacy, Faculty of Pharmacy, Bratislava, Kalinciakova 8.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J.

SURNAME, Given Names

(1)

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Chair of Galenic Pharmacy, Faculty of Pharmacy, UK /Komenskeho universita; Comenius University/ (Katedra galenicke farmacie, Farmaceuticka fakulta KU), Bratislava.

Source: Bratislava, Farmaceuticky Obzor, Vol XXX, No 4, 1961, pp 119-121

Data: "Pill Maker From New Material."

31

SPO CA1643

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J. CSSR

no academic degree indicated

Dept. of galenic pharmacy of the pharmaceutical faculty, Comenius University (katedra galenicke farmacie Farmaceuticke fakulty UK), Bratislava

Bratislava, Farmaceuticky Obzor, No 11-12, 1962, pp 505-506

"New Methods of Granulation of Drugs"

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

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CHALABALA, M.; MALY, J.

Advances in the production and control of tablets. III. Inert substances. Cesk. farm. 11 no.7:364-372 S '62.

1. Katedra galenicke farmacie, farmaceuticka fakulta University Komenskeho, Bratislava.
(TABLETS) (CHEMISTRY, PHARMACEUTICAL)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J.

Study of tablets. I. The effect of the content of powdered drug on the lubricity of granulates and the friction and mechanical resistance of tablets. Cesk. farm. 11 no.7:337-342 S '62.

1. Katedra galenicke farmacie farmaceuticke fakulty University Komenskeho, Bratislava.
(TABLETS) (CHEMISTRY, PHARMACEUTICAL) (TALC)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

4 author

3

CHALABALA, M; MALÝ, J; MANDÁK, M; ŽAČEK, H.

Czechoslovakia

Bratislava, Farmaceutický Obzar, No 10, 1962, pp 458-466

"Survey of the Activity of Galenic Pharmacy."

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Bratislava, Farmaceuticky Obzor, Vol 20, No 12, 1951

(No copyright)

1. The Fifth National Pharmaceutical Convention in Olomouc
2. Possibility of Streptothricine-Type Cardenolides in Digitalis Purpurea, Iana L. [illegible]
3. Titles and Abstracts for Proceedings of Congress and Tablet Control [illegible]
4. Report on the Progress of Our Pharmaceutical Chemistry [illegible]
5. Pharmacy Yesterday and Today [illegible]
6. Rapid Tests for Some Alkaloids [illegible]

-- 1/2 --

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

CHALABALA, M.; MALY, J.

Progress in drug technology in 1959 and 1960. Cesk. farm. 10 no.9: 468-482 '61.

1. Katedra galenicke farmacie, farmaceuticka fakulta UK, Bratislava.
(PHARMACY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Medicinal Substances. Vitamins. Antibiotics. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20489

Author : Maly, Josef; Sanda, Miroslav
Inst :
Title : New Packing Materials and the Packing of Medicinal Preparations.

Orig Pub : Farmacia (Ceskosl.), 1957, 36, No 5, 141-157

Abstract : A review. Bibliography, 44 titles.

Card : 1/1

H-73

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Maly, Josef

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application, Part 3. - Drugs, Vitamins, Antibiotics. H-17

Abs Jour : Ref Zhur = Khim., No 14, 1958, No 47791

Author : Milan Chalabala, Josef Maly.
Inst : --
Title : Preparation of Granulated Powders with Activated Carbon.

Orig Pub : Coskosl. farmac., 1956, 5, No.3, 154 - 157.

Abstract : It was found that at the preparation of granulated powders with activated carbon, the mixture containing 70% of carbon 20% of bentonite and 10% of gum arabic produced the best results. The use of hudrolyzed cherry gum makes the granulate strength too great and decreases its crumbling and adsorption capacity.

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, Josef

CZECHOSLOVAKIA/Medicinal Substances, Vitamins, Antibiotics. H.

Abs Jour : Ref Zhur - Khimiya, No 19, 1958, 65345

Author : Chalabala Milan, Maly Josef

Inst : -

Title : Concerning the Bases for the Manufacture of Suppositories.

Orig Pub : Ceskosl. farmac., 1956, 5, No 1, 38-44.

Abstract : Review with Bibliography of 101 titles.

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Medicinals. Vitamins. Antibiotics. H-17

Abs Jour: Ref Zhur-Khim., No 13, 1958, 44309.

Author : Mala Dagmar, Melichar Bohuslav, Maly Josef.
Inst :
Title : Determination of Water in Pharmaceutical Preparations.

Orig Pub: Farmacia, 1955, 24, No 1, 2-9.

Abstract: A review of the physical methods (drying, determination of electric properties, polarography, colorimetry, hetero-azeotropic distillation) and chemical methods (reaction with CaC_2, CaH_2, $HCOOC_2H_5$ and C_2H_5ONa, and

Card : 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MELICHAR, M.; CHALABALA, M.; MALY, J.

Enterosolvent envelopes of some doses drugs. Cesk. farm. 3 no.9: 315-323 Nov 54.

(DRUGS
enterosolvent envelopes for dosed drugs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application. Medicinals, Vitamins. Antibiotics. H-17

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26151

Author : III. Chalabala M., Maly J., Melichar M.
IV. Melichar Milos, Smecka Vladimir, Zacek Hubert

Inst : -

Title : The Use of Bran Bentonite in the Preparation of Galenics and Medicinals. III. Bentonite as a Component of Tablet Fillers. IV. Its Effect on Stability on Uniform Dosage and on the Possibility of Cooling of Misturae Which Must be Shaken.

Orig Pub : Ceskosl. farmac., 1954, 3, No 9, 307-310; 1956, 5, No 2, 95-98.

Abstract : Part III. Disintegration of tablets containing dried bentonite (B) is greater than of those made with undried B, especially in the presence of acidic substances

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

CHALABALA, M.; MALY, J.; MELICHAR, M.

The use of Branany bentonite in pharmaceutical preparations, II.; bentonite as ingredient of pill mass. Cesk. farm. 3 no.8:281-283 Oct 54.

1. Z ustavu galenicke farmacie farmaceuticke fakulty v Brne
(ALUMINUM SILICATE
Branany bentonite in pharmacol., use in pills)
(DRUGS
Branany bentonite, use in pills)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MELICHAR, M.;CHALABALA, M.;KRAL, J.;MALY, J.; PRECECHTEL, M.;RUSEK, V.;SMECKA, V.;SOLICH, J.;SANDA, M.;ZACEK, H.

Working schedule for pharmacy students in 1952. Cesk. farm. 1 no.10: 605-612 1952. (CLML 23:4)

1. Of the Department of Galenic Pharmacy of Masaryk University, Brno.

Josef MALY - PhMR - galenic pharmacy
So: Masaryk Univ Catalogue - 1952.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

PORUBSKY, Anton, RNDr.; MALY, Jozef

Pumping tests and determination of their duration in the hydrogeological practice. Geol pruzkum 5 no. 10:300-303 O '63.

1. Geologicky prieskum, n.p., Zilina.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

HOJOVEC, Vlad., inz.; MALY, Jiri, inz.; PROFELD, Evzen, inz.

Simplified computation of the profile for determining the television beam visibility. Sdel tech 9 no.11:428-430 N '61.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

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21116

High temperature alloys of ...

SLOV/001/60/000/008/001/002
D255/D303

Table 1. Chemical analysis and mechanical properties of Soviet and Czech high-temperature alloys.

Legend: 1 - Alloy; 2 - producer; 3 - chemical analysis in %; 4 - creep strength at 1000 h/10,000 h kg/mm^2; 5 - other.

Chemické zloženie a mechanické hodnoty sovietskych a čs. žiarupevných zliatin — Tabuľka 4

TABLE 4

(1) Zliatina	(2) Výrobca	(3) Chemické zloženie % C	Cr	Ni	Mo	W	Ti	Al	(5) iné	(4) Pevnosť pri tečení na 1000 h/10 000 h kg/mm² 700 °C	750 °C	800 °C
EI 607A	SSSR	0,07	15,0 17,0	„—" zbytok	—	—	1,4 1,7	1,7 2,2	Nb 1,0 1,5	25,0 20,0	—	—
EI 765	SSSR	0,1 0,16	14,0 16,0	„—" zbytok	3,0 5,0	4,0 6,0	1,0 1,4	1,7 2,2	B 0,010	31—35 21—23	22—25 13—17	14—16 —
AKNC	ČSSR	0,1	20,0	„—" zbytok	—	—	1,8 2,7	0,8 1,0	—	24,0 13,0	17,5 9,0	— —

Card 2/2

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21116
SLOV/001/60/000/008/001/002
D255/D303

18 1150 1496, 1454, 4016

AUTHOR: Malý, Jiři, Engineer

TITLE: High temperature alloys of the Nimonic type

PERIODICAL: Technická práca, no. 8, 1960, 642-645

TEXT: The author describes the properties and applications -- including heat treatment -- of Nimonic alloys which are produced in Great Britain [Abstractor's note: All pertinent data in the article is quoted from Nimonic alloy catalogues, issued by Henry Wiggin & Co. Ltd. Birmingham, England]. Subsequently the author mentions the US production of similar alloys, and then Soviet alloys EI 607A and EI 765, whose chemical analysis and certain mechanical properties are given in Table 4. Alloy AKNC, having similar properties to Nimonic 80A and which is produced at SONP, Kladno (CSR) is also described in Table 4. There are 4 figures and 4 tables.

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CZECHOSLOVAK DISSERTATIONS [Cont'd] Z/034/63/018/003/003/004

NaCl and 0.1% HCl depends not only on the degree of decomposition of the solid solution but also on the physicochemical characteristics of the precipitated phase, which in turn are determined by the distribution of the precipitated phase in the solid solution matrix. The precipitated particles are cathodes. Corrosion develops in the grain area adjacent to the grain boundaries. Plastic deformation prior to aging intensifies the precipitation and promotes intergranular corrosion.
[DV]

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MALY J.

AID Nr. 976-4 24 May

CZECHOSLOVAK DISSERTATIONS IN METALLURGY (CZECHOSLOVAKIA)

Teindl, J. Hutnicke Listy, v. 18, no. 3, Mar 1963, 223-224.
Z/034/63/018/003/003/004

The dissertation of J. Maly dealt with the hot cracking of fully austenitic welds. It confirmed the beneficial effect of elements forming low-melting eutectics and of fine grained structure. Tungsten, a strong carbide former, lowers the carbon content of the residual liquid phase, which raises the melting point of this phase and makes it less effective in preventing hot cracking. Weak spots formed by solidified low-melting eutectics can be eliminated by homogenizing annealing. Rare-earth metals do not appear to have any beneficial effect in reducing the weld susceptibility to hot cracking. V. Ruža studied the properties of brazing alloys and brazed joints and the effect of various brazing variables. C. Dočkal's work dealt with the intergranular corrosion of duralumin, primarily with the effect of aging at 150°C. He found that the corrosion behavior of duralumin in an aqueous solution containing 3%

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MALY, Jaroslav, inz.

Fast determination of phenols in waste waters. Vodni hosp 13 no.12:447-448 '63.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, Jaroslav

Experience with the CO_2 shielded welding in the Ceske Zavody Motocyklove in Strakonice Enterprise. Zvaranie 12 no.3:74-77 Mr '63.

1. Ceske zavody motocyklove Strakonice.

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MALY, Jaroslav

New welding methods in manufacturing motorcycles CZ 125, CZ 175 and CZ 250 ccm in Ceske zavody motocyklove [Czech Motorcycle Works] in Strakonice. Zvaranie 11 no.5:148-151 My '62.

1. Technolog svarovani, Ceske zavody motocyklove Strakonice.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J.; FADRUS, H.

The possibility of use of indigocarmine for the determination of nitrates. Cesk. hyg. 9 no.6:367-373 Jl'64

1. Vodohospodarska sprava, Brno.

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MALÝ, Jaroslav

7 2

Treatment of phenolic liquors with carbon adsorbents and recovery of volatile adsorbates. Jaroslav Malý. Czech. 87,137, Sept. 15, 1957. A procedure and app. are described in which the wastes from the production of brown-coal water gas are adsorbed in a cyclic manner on Winkler generator dust and recovered by heating in a stream of inert gas.

L. J. Urbánek

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, Jaroslav; BRANDSTETR, Jiri

Present state of metallocarbon chemistry. Chem listy 58 no. 7:
751-762 Jl '64.

1. Institute of Nuclear Research, Rez, and Chair of Chemistry,
Higher School of Technology, Brno.

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ACCESSION NR: AP4020055

positions and in extraction from solutions of HCl, into 2 positions according to the relationship to lanthanides having a similar subshell. "The authors are grateful to Prof. G. N. Flerov for his constant attention and discussion of results, Ya. Varkhol, Z. Borkovskaya, V. P. Perely*gin and A. S. Tishinaya for help in the experiments, cyclotron maintenance groups for conduction irradiation, Ya. Mikyl'sky*y for the silica gel kindly submitted." Orig. art. has: 8 figs.

ASSOCIATION: None

SUBMITTED: 01Sep62 DATE ACQ: 31Mar64 ENCL: 00

SUB CODE: CH, PH NO REF SOV: 006 OTHER: 009

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

S/0186/64/006/001/0026/0035

ACCESSION NR: AP4020055

AUTHOR: Brandshtetr, I.; Wang, T'ung-hseng; Gavrilov, K. A.; Gvuzd', Ye.; Maly*, Ya.; Taube, M.

TITLE: Extraction properties of fermium and mendelevium (TBF-HNO sub 3, TBF-HCl)

SOURCE: Radiokhimiya, v. 6, no. 1, 1964, 26-35

TOPIC TAGS: extraction property, fermium, mendelevium, TBF-HNO sub 3, TBF-HCl, partition chromatography

ABSTRACT: The extraction properties of fermium and mendelevium are studied for the first time by the partition chromatography method in the system TBF-HNO_3 and TBF-HCl. The separation of heavy actinides will be better during chromatographic extraction from solutions of hydrochloric acid than from solutions of nitric acid. In the extraction column, the heavy actinides behave like analogs of the following lanthanides. In HNO_3: Fm is the analog of europium, Md is between Eu and Gd; in HCl: Fm is the analog of Dy, Md is between Ho and Dy. It follows that during extraction from solutions of HNO_3, the actinides are shifted into 5

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Extraction of the main fission ...

of Sr^{90} decreases by two orders of magnitude when the HNO_3 concentration is reduced from 3M to zero. The extraction of Zn^{95} and Ru^{106} is reduced sharply on transition from acid solutions to solutions with acid deficiency. [Abstracter's note: For the previous paper, see RZhKhim, 1961, 22V7. Complete translation.]

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

S/081/62/000/024/008/073
B108/B186

AUTHORS: Beranová, H., Lenk, R., Malý, J., Veselý, V.

TITLE: Extraction of the main fission products of uranium by means of some ketones from acid solution and from solution with acid deficiency

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 78, abstract 24B546 (Collect. Czechosl. Chem. Communs, v. 27, no.2, 1962, 487 - 491 [Ger.; summary in Russ.])

TEXT: Measurements were taken of the distribution coefficients of Sr^{90}, Zr^{95}, Ru^{106}, Ce^{144}, and Cs^{137} between the aqueous solutions of 0.25M $UO_2(NO_3)_2$, 5M NH_4NO_3, of various concentrations with respect to HNO_3, and $CH_3COC_5H_{11}$ (I), CH_3CO-iso-C_4H_9 (II), $CH_3COC_3H_7$ (III), and methyl cyclohexanone (IV). The extraction of Cs^{137} and Ce^{144} by all of the solvents and the extraction of Sr^{90} by III and IV depends but little on the acid concentration. On extraction with I and II, the distribution coefficient

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TAUBE, M.; GVUZD', Ye. (Gwozdz, E.); GAVRILOV, K.A.; MALY, Ya. (Maly, J.); BRANDSHTETR, I.; VAN TUN-SEN ['Wang T'ung-Seng]

Extraction of mendelevium and fermium in the TBP--HNO_3 system. Nukleonika 7 no.7/8:479-482 '62.

1. Ob"yedinennyy institut yadernykh issledovaniyi, Dubna, Laboratoriya yadernykh reaktsiy.

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BERANOVA, H.; BRANDSHTETR, I.; DRUIN, V.; YERMAKOV, V.; ZVAROVA, T.; KZHIVANEK, M. (Krzywanek, M.); MALY, Ya. (Maly, J.); POLIKANOV, S.; SU HUNG-KUEI

Synthesis of ^{256}Md as a result of irradiating ^{238}U with ^{22}Ne ions and research on some of its chemical properties. Nukleonika 7 no.7/8:465-471 '62.

1, Ob"yedinennyy institut yadernykh issledovaniy, Dubna, Laboratoriya yadernykh reaktsiy.

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DRUIN, V.A.; BRANDSHTETR, I.; MALY, Ya.

[Measurement of the period of spontaneous fission of the fermium isotope Fm^{252}] Izmerenie perioda spontannogo deleniia izotopa fermiia Fm^{252}. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 12 p. (MIRA 15:2)
(Nuclear fission) (Fermium--Isotopes)

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BARANOVA, G.; BRANDSHTETR, I.; DRUIN, V.; YERMAKOV, V.; ZVAROVA, T.; KRZHIVANEK, M.; MALY, Ya.; POLIKANOV, S.; SU KHUN-GUY [Su Hung-kuei]

[Production of Md^{256} through irradiation of U^{238} with Ne^{22} ions, study of some of its chemical properties] Poluchenie Md^{256} pri obluchenii U^{238} ionami Ne^{22} i izuchenie ego nekotorykh khimicheskikh svoistv. Dubna, Ob"edinennyi in-t iadernykh issl., 1962. 11 p. (MIRA 15:1)

(Mendelevium) (Uranium) (Neon)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

TAUBE, M.; GVUZD', Ye.; GAVRILOV, K.A.; MALY, Ya.; BRANDSHTETR, I.; VAN TUI-SEN; SARANTSEVA, V.R., tekhn. red.

[Extraction of fermium and mendelevium in the tributyl phosphate-nitric acid system] Ekstraktsiia fermiia i mendeleviia v sisteme TBF - HNO_3. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 6 p. (MIRA 15:7)

(Fermium) (Mendelevium)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Reaction of plutonium ...

$$2PuO_2 + 5NH_4HF_2 \xrightarrow{125^\circ} 2NH_4PuF_5 + 2H_2O \cdot 3NH_3 \quad (1)$$

$$NH_4PuF_5 \cdot 2H_2O \xrightarrow{160-200^\circ} NH_4PuF_5 + 2H_2O \quad (2)$$

$$NH_4PuF_5 \xrightarrow{250-280^\circ} PuF_4 + NH_3 + HF. \quad (3)$$

Acknowledgments are expressed to L.N.Sedlakova who interpreted the X-ray patterns. There are 3 figures, 1 table and 7 non-Soviet-bloc references. References to English-language publications include the following: G.T.Seaborg, J.Katz. The Actinide Elements, N.Y. (1954); J.K.Dawson, R.M.Elliot, Rep. A.E.R.E. (C/R 1207), Harwell (1957); J.K.Dawson, R.M.Elliot, R.Hurst, A.E.Truswell, J.Chem.Soc., 558 (1954); J.K.Dawson, D.Eye, A.E.Truswell, J.Chem.Soc., 3922 (1954).

SUBMITTED: September 25, 1959

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

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Reaction of plutonium ...

corresponding flubrides in the crucible at 600 - 700°C; the employed analytical methods of determination of F and NH_3 are those described by J.Rodden (Ref.6: Analytical chemistry of the Manhattan project. McGraw-Hill Book Co., INC (1950)) and P.Kirk (Ref.7: Quantitative Ultramicroanalysis, N.Y. (1950)). The obtained results were checked by control experiments by the Debye-Scherrer X-ray method. Thermo-gravimetric tests on the $PuO_2 - NH_4HF_2$ mixture yielded the temperature-time dependence during experiments with 20 to 50 mg of this mixture. The thermo-gravimetric curve and results of chemical analyses showed the temperature range of stability of these compounds:

$NH_4PuF_5 \cdot 2H_2O$	110—125°
NH_4PuF_5	160—200°
PuF_4	250—270°

These results define the temperature conditions of fluorination. It is concluded that the reaction mechanism is as follows:

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23001

S/186/61/003/002/011/018
E142/E435

21.3100

AUTHORS: Maly, Ya., Peka, I., Talash, M. and Tympl, M.

TITLE: Reaction of plutonium dioxide with acidic ammonium fluoride in the absence of water

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.2, pp.195-198

TEXT: Plutonium tetrafluoride is used for the preparation of metallic Pu. The described method consists in the fluorination of plutonium dioxide with ammonium fluoride in the absence of water and is analogous to the method of preparation of uranium tetrafluoride (Ref.5: J.Van Impe, Chem.Eng.Progress, 50, 5, 230 (1954)). A weighed quantity of plutonium dioxide is mixed in a 0.2 ml platinum crucible (Fig.3) with a 20 - 50% stoichiometric excess of re-crystallized and dried ammonium fluoride. The reaction mixture is heated in a vertical furnace to a previously determined temperature at which it is kept for 30 minutes; then the crucible is weighed. The starting temperature is 70°C, the end-temperature 350°C. The temperature is measured with a Pt/Pt-Rh thermocouple. The entire set up is placed in a glass casing through which argon is bubbling. The plutonium is determined by weighing the PuO_2, formed during the calcination of the

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technology, and principles of thermonuclear processes are reviewed. The following are some of the personalities mentioned: J. Kaspar, Professor, Doctor, Corresponding Member, ČSAV; J. Cabicar, Doctor, Candidate of Sciences, J. Růžička, A. Gosman, Z. Spurny, Candidate of Sciences, and M. Podest, Engineer, all of FTJF, ČVUT; F. Behounek, Academician; J. Klumpar, Doctor, ČSAV; and M. Majerova, Doctor, wife of the principal author of this text. There are 1076 references, Czech and non-Czech.

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Foreword 13

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I. INTRODUCTION

1. Basic Modern Experimental Knowledge 21

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Principles of Nuclear Chemistry (Cont.)

PURPOSE: This textbook is intended for students in schools of higher education, as well as for research and industrial personnel concerned with the peaceful uses of atomic energy and radioactive isotopes.

COVERAGE: The textbook deals with the principles of nuclear chemistry. Elementary concepts of the structure of matter and atoms and the origin and development of nuclear chemistry and radiochemistry are viewed in the foreword. The main text is devoted to nuclear reactions, natural and artificial radioactivity, nuclear fission, and the chemistry of 1) nascent atoms, 2) interaction of nuclear radiation with matter, 3) radioactive elements and isotopes, and 4) radioactive tracers. Working methods and techniques, preparation of natural and artificial radioactive compounds and stable isotopes, preparation of tagged compounds, and methods of separation, concentration, and isolation of radioactive compounds and isotopes are described in detail. Uses of nuclear chemistry in analytical chemistry and technology, principles of nuclear chemical

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- MALY JAROMIR

PHASE I BOOK EXPLOITATION Z/6221

Majer, Vladimír, Docent, Engineer, Doctor.

Základy jaderné chemie (Principles of Nuclear Chemistry). Prague, SNTL, 1961. 607 p. Errata slip inserted. 2500 copies printed.

Collaborators: Ladislav Drška, Engineer, Department of Nuclear Physics (FTJF) of the Technical University of Prague (ČVUT); Bohumír Chutný, Engineer, Doctor, Vladimír Kačena, Doctor of Natural Sciences, and Jaromír Malý, Engineer, all of the Institute of Nuclear Research (ÚJV), Czechoslovak Academy of Sciences (ČSAV); and Adolf Zeman, Doctor of Natural Sciences, FTJF, ČVUT.

Reviewers: Jiří Tepl[illegible], Engineer, Candidate of Sciences, ÚJV, ČSAV, and Čestmír Jech, Doctor. of Natural Sciences, Candidate of Sciences, of the Institute of Physical Chemistry, ČSAV; Chief Ed. for Chemical Literature: Adolf Balada, Doctor of Natural Sciences; Resp. Ed.: Vladimír [illegible], Engineer; Tech. Ed.: Ludvík Charvát.

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VESELY, V.; BERANOVA, H.; MALY, J.

Extraction of irradiated uranium by ketones in acid solutions and acid-poor solutions. Coll Cz chem 25 no.10:2622-2629 O '60. (EEAI 10:9)

1. Institut fur Kernforschung, Tschechoslowakische Akademie der Wissenschaften, Prag.

(Extraction(Chemistry)) (Ketones) (Uranium) (Solutions)

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MALY, J.; KURZWEILOVA, H.; LENK, R.; PEKA, I.

Study on actinides. Part 1: Determining the content of $Am^{242/1}Am$ in plutonium by means of alpha and gamma rays spectroscopy. Coll Cz Chem 25 no.5:1383-1390 My '60.

1. Institut fur Kernoforschung, Tschechoslowakische Akademie der Wissenschaften, Prag.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J.

Preparation of crystals of U_3O_8 and investigation of their structure. B. Chodura, H. Landspersky, V. Machacek, and J. Maly (Czech. Acad. Sci., Prague). *Energia Nucleare* (Milan) 1, 101–4(1959).—The oxide is formed by decomposition of uranyl nitrate, ammonium diuranate, or uranium peroxide at temps. between 745 and 940°. It is then heated to 1000° for some days to enlarge the crystals. This method gives crystals up to 10 μ in diam. Their structure is hexagonal, the main lattice having parameters a = 3.94 kX, b = 6.717 kX, c = 4.14 kX. Another lattice of, about 1/3 the intensity of the main one, has parameters of 3.87, 6.926, and 4.14 resp. N. Corcoran

AEAC

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MALY, J.

Determination of the fission yield of barium-141 and barium-142. Jaromír Malý, Vladimír Knobloch, Dana Imrišová, Zdeněk Přásil, and Zdeněk Urbanec (Čsl. akad. věd, Prague). *Chem. listy* 52, 918-25(1958).—Fission yields and half-lives for Ba^{141} and Ba^{142} were detd. by the radiochem. method. The decay of Ba isotopes sepd. from irradiated U^{235} was measured both without and with an Al absorption foil. From the decrease of the activity of the pure Ba isotopes their radiation energy was detd. The relative fission yield of these isotopes was detd. from the ratio of their activities to the activity of Ba^{139} and from the known fission yield of Ba^{139}. Fission yields (based on the fission yield of Ba^{139} = 6.3%), radiation energies (as measured by the absorption method), and half-lives for Ba^{141} and Ba^{142}, resp., are: $Y^{\%}$ = 5.26 ± 0.32%, 4.90 ± 0.53%; E_β 1.93 ± 0.1, 0.76 ± 0.07 m.e.v.; and $T_{1/2}$ 18.3 min., and [illegible] min.

M. Hudlický

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

E

Country : CZECHOSLOVAKIA
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15086

Author :
Institut. :
Title :

Orig Pub. :

Abstract : more accurate results. The average error of
Continued differential determination of UN is less than ± 2%.-- J. Vanecek

Card: 5/5

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

E

Country : CZECHOSLOVAKIA
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15086

Author :
Institut. :
Title :

Orig. Pub. :

Abstract Cont'd : plus 15 ml. of 0.1% aqueous solution of methylene blue) up to a change of the violet color of the solution into yellow-green; then, the free HNO_3 is titrated according to a mixed indicator (70 ml. of 0.1% alcohol solution of dimethyl yellow plus 30 ml. of 0.1% solution of methylene blue) until change of the cherry-red color into green. The visual method of determining the end of titration is simpler and faster than the potentiometric one, and gives

Card: 4/5

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Country : CZECHOSLOVAKIA E
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15086

Author :
Institut. :
Title :

Orig Pub. :

Abstract Cont'd : recommended to add 3 g. of hard $NaNO_3$ per each 0.5 g. of UN to the analyzed solution, before titration without H_2O_2, in order to suppress the hydrolytic formation of $UO_2(UO_3)_4(NO_3)_2$. In visual determination of the terminal point, the total quantity of HNO_3 (1-2.5 g. of UN per 100 ml.) is titrated first after the addition of H_2O_2 and 10 drops of Tashiro indicator (100 ml. of 0.03% alcohol solution of methyl red

Card: 3/5

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Country : CZECHOSLOVAKIA E
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15086

Author :
Institut. :
Title :

Orig Pub. :

Abstract : metric method consists in first titrating the
Cont'd total HNO_3 after the addition of 5 ml. of 30% H_2O_2 to the analyzed solution, and then titrating the free acid without the addition of H_2O_2; from the difference, the quantity of UN present is found. An accurate reading of the inflection point on the titration curve of free HNO_3 is hindered by the appearance of a second inflection point which corresponds to the formation of $UO_2(UO_3)_4(NO_3)_2$. Therefore, it is

Card: 2/5

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Country : CZECHOSLOVAKIA E
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15086

Author : Cepelak, J.; Maly, J.; Vesely, V.
Institut. : -
Title : Determination of Uranyl Nitrate in the Presence of Free Nitric Acid by Alkalimetric Titration

Orig Pub. : Chem. listy, 1958, 52, No 3, 547-549

Abstract : On the basis of the reaction: $UO_2(NO_3)_2 + H_2O_2 = 2HNO_3 + UO_4$, which proceeds quantitatively at pH 2-5, a rapid titrimetric method was developed for the determination of $UO_2(NO_3)_2$ (UN), which is also effective in the presence of free HNO_3. Elimination of excess H_2O_2 during titration is not required. An outlay of 0.1 n. NaOH, the equivalent of freed HNO_3, is established potentiometrically or visually. The potentio-

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CZECHOSLOVAKIA / Physical Chemistry. Thermodynamics. Thermochemistry. Equilibria. Phase Changes. Physico-chemical Analysis. B

Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41612

Author : Cepalek, J.; Maly, J.; Machacek, V.
Inst : Not given
Title : Extraction of Uranyl Nitrate with Diethyl Ether from Water - Nitric Acid - Ammonium Nitrate Solutions

Orig Pub : Collect. czechosl. chem. commun., 1958, 23, 1509-1514

Abstract : No abstract given. See Ref Zhur - Khim, 1958, No 22, 73264

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MALY JAROMIR

Distr: 4E2c

27

Sodium polyuranate chemistry. Jaromir Maly and Vaclav Vesely (Inst. Nuclear Phys., Prague). *J. Inorg. & Nuclear Chem.* 7, 119-28(1958).—Forward and reverse potentiometric titration of NaOH and uranyl nitrate solns. showed polyuranates with different Na:U ratios and one with the empirical formula $(UO_3H_2O)_8N_2O_9$ (I). Changes in absorption spectra and pH indicated polymerization and hydrolysis of uranyl ions in titrations, and this was correlated with compn. I and $(UO_3H_2O)_nNa_2O$ (n = 3-16) were obtained as solids; I, and the n = 5 and 16 Na salts have similar orthorhombic structures, a = 7.09 ± 0.02, b = 9.55 ± 0.02, and c = 5.11 ± 0.06A. For polyuranates with n <5, the structure was different and the following spacings were established by powder diffraction: 5.843, 4.136, 3.307, 3.200, 2.985, 2.699, 2.505, 2.260, 1.985, 1.888, 1.729, 1.417, 1.352, 1.288, 1.123, and 1.070A.

Jack J. Bulloff

4

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method of inverse pictures. The distance between film and sample amounted to 30 mm; time of exposure: 1 hour. No crystals investigated have a hexagonal structure, as is assumed by some authors (Ref 9), but are of a rhombic structure. Some of these crystals show weak, layer-like lines which are indicative of a threefold periodicity with the distance 3a. However, also weak lines were found which indicate a two-fold periodicity with the distance 2c. There are 12 figures, 3 tables, and 10 references, 2 of which are Soviet.

SUBMITTED: March 24, 1958

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, J.

AUTHORS: Chodura, B., Landspersky', G., Macha'Ček, V., Maly', J. (Praha) SOV/89-5-2-16/36

TITLE: On the Production of U_3O_8 Crystals and the Investigation of Their Structure (Polucheniye kristallov U_3O_8 i izucheniye ikh struktury)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 2, pp. 181-183 (USSR)

ABSTRACT: The influence exercised by uranium initial materials and the conditions of their precipitation, temperature and time of thermal treatment upon the amount and the state of U_3O_8 were investigated. Uranyl nitrate, ammonium uranate and uranium peroxide served as initial material for the representation of U_3O_8. The thermal treatment of uranium salts (the weighed portion amounted to 5 - 200 g) was carried out at 1 110°C in the course of 5 hours, 48 hours, and 7 days.
For the accurate X-ray determination of the crystals it was necessary that the samples consisted of crystals of the same order of magnitude. A sedimentation in water took place; 5 g of each preparation was sedimented in 5 fractions and various times (10 sec, 2 min, 30 min and 24 h). X-ray pictures were made by the

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Inst. Nuclear Physics CSAV Prague

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COUNTRY : Czechoslovakia
CATEGORY :

B-15

ABS. JOUR. : RZKhim., No. 22 1959, No. 77968

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : process characterized by a value of $T_{\frac{1}{2}}$ = 45 min depends neither on the chemical composition of the solution nor on the type of stirrer used. When the adsorbing are sufficiently dilute, no competition between the individual radioisotopes is observed. Of practical interest is the possibility of lowering $T_{\frac{1}{2}}$ for radioactive Zn(2+) by the addition of a small quantity of Fe(2+) to the solution; this makes possible the acceleration of the deactivation of the strips after desorption in acid solutions.

CARD: 3/3

Ya. Satunovskiy

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COUNTRY : Czechoslovakia
CATEGORY :

B-13

ABS. JOUR. : RZKhim., No. 22 1959, No. 77968

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : I is the activity of the strips, λ is the decay constant, and C_{zi}, z_i, and I_∞ are constants. The three exponential terms in the equations correspond to the three different first-order processes taking place, which depend on the degree of coverage of the surface of the strips by the ions present in the sorption solution. The process with a mean T_1' = 4 hrs depends on the $Fe(2+)$ concentration; the process with T_1'' = 2 min depends on the H^+ concentration. The

CARD: 2/3

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B-13

77968

COUNTRY : Czechoslovakia
CATEGORY :
ABS. JOUR. : RZKhim., No. 22 1959, No.

AUTHOR : Dlouhy, Z. and Maly, J.
INST. : Not given
TITLE : The Kinetics of the Sorption of Mixtures of Radioisotopes at Surfaces

ORIG. PUB. : Jaderna Energie, 4, No 12, 387-388 (1958)

ABSTRACT : The authors have investigated the adsorption of the radioisotopes Ca 45, Zn 65, Po 210, and their mixtures on steel strips from hydrochloric acid solutions and their desorption when the strips are immersed in solutions containing desorbing agents. The kinetics of the adsorption and of the desorption can be described by the following equations: $I_A = \lambda C_{z_1}(1-\exp(-z_1 t) + \lambda C_{z_2}(1-\exp(-z_2 t) + \lambda C_{z_3}(1-\exp(-z_3 t)$: $I_D = \lambda C_{z_1}(1-\exp(-z_1 t) + \lambda C_{z_2}(1-\exp(-z_2 t) + \lambda C_{z_3}(1-\exp(-z_3 t) + \lambda \Gamma_\infty$ [notation unclear], where

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

C

COUNTRY : Czechoslovakia
CATEGORY : Inorganic Chemistry. Complex Compounds.

ABS. JOUR. : RZKhim., No. 16 1959, No. 56616

AUTHOR : Maly, J. and Vesely, V.
INST. : Not given
TITLE : Note on the Chemistry of the Sodium Polyuranates

ORIG. PUB. : Jaderna Energie, 4, No 12, 371-376 (1958)

ABSTRACT : Polyuranates have been prepared by the reaction of solutions of NaOH with $UO_2(NO_3)_2$. The formation of polyuranates with varying Na/U ratios was established by potentiometric titration. The absorption spectra and pH measurements show polymerization and hydrolysis of the $UO_2(2+)$ ions. Crystalline $(UO_3 \cdot H_2O)_5 \cdot N_2O_5$ (I) and $(UO_3 \cdot H_2O)_n \cdot Na_2O$ (II), with n = 3-16, have been isolated. The x-ray data for I and II (n = 5,16) indicate a rhombic structure with lattice parameters a = 7.09 ± 0.02, b = 9.55 ± 0.02, and c = 5.11 ± 0.02A. From authors' summary

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BERANOVA, Hana; MALY, Jaromir; VESELY, Vaclav

Uranyl nitrate extraction by tributyl phosphate. Jaderna energie 4 no.6:145-148 Je '58.

1. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

MALY, Jaromir; MACHACEK, Vojtech; KUTZENDORFER, Jaroslav; KOURIM, Vaclav; JERABEK, Vaclav

Preparation of metallic uranium. Jaderna energie 4 no.1:9-18 Ja '58.

1. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

~~GABRIEL~~ MALY, Jaromir

CZECHOSLOVAKIA/Physical Chemistry. Thermodynamics. Thermochemistry. Equilibria. Physical-Chemical Analysis. Phase Transitions. B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73264.

Author : Josef Cepelák, Jaromír Mály, Vojtech Machácek.
Inst :
Title : Extraction of Uranyl Nitrate by Diethyl Ether from Water - Nitric Acid - Ammonium Nitrate Salutions.

Orig Pub: Chem. listy, 1957, 51, No 2, 2195-2199.

Abstract: The authors established the equilibrium distribution of uranyl nitrate (I) between aqueous HNO_3 solution and diethyl ether (II) in the presence of NH_4NO_3. The distribution was different at HNO_3 concentrations of 1 and of 5 n. Based on the study of the equilibrium of absorption spectra of the two phases and of the

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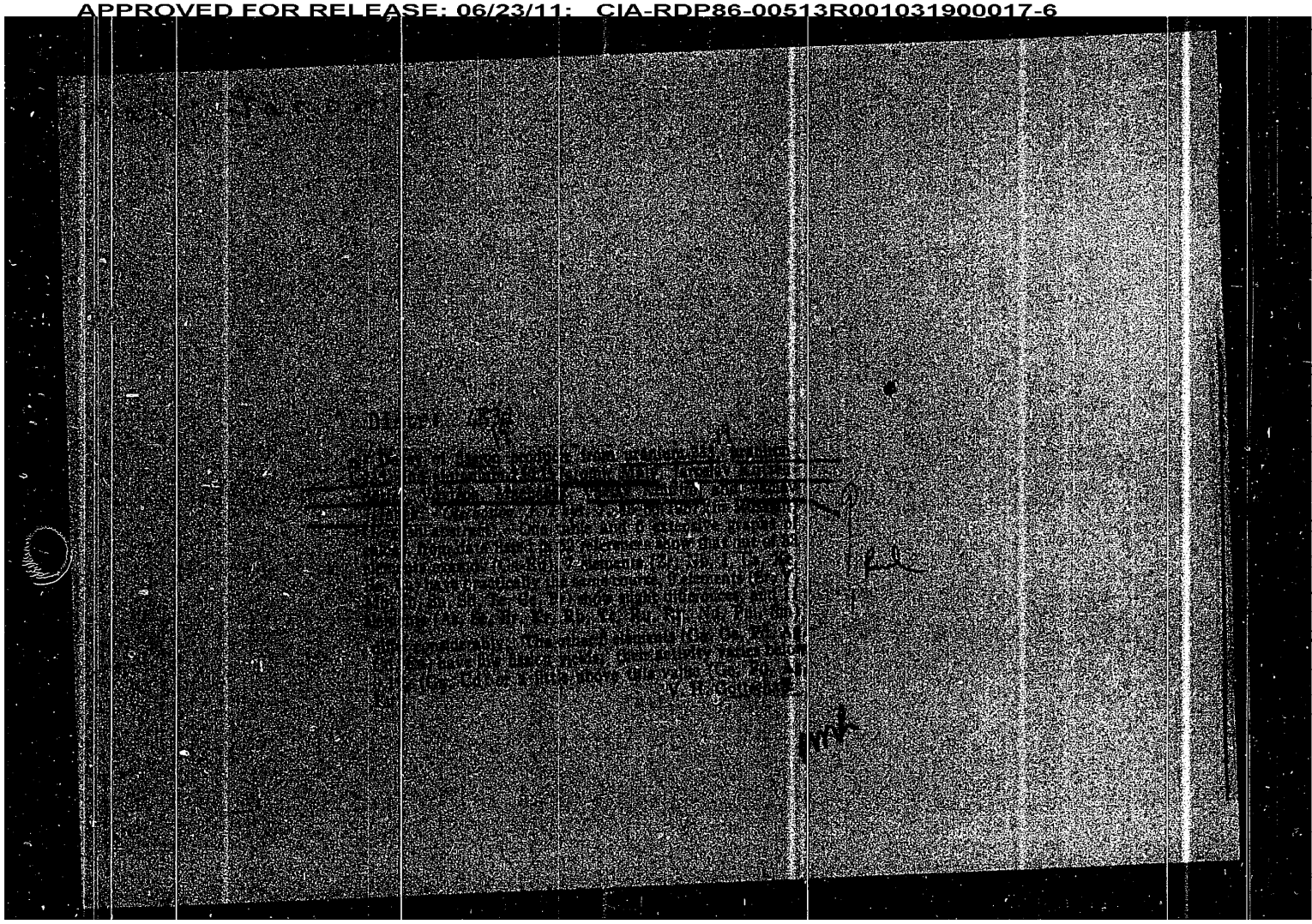

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ALEXA,Jiri; MALY,Jaromir; MARHOL,Milan; NOVAK,Milan; WAGNEROVA,Dana

Adsorption of uranium to the CAL anex. Jaderna energie 3 no.7: 200-203 Jl '57

1. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

KRIZANSKIJ, L.M.; MALY, J.; MURIN, A.N.; PREOBRAZENSKIJ, B.K.

Fission products of the isotopes of cesium and rare earths resulting from the fission of Pu^{239} with neutrons from nuclear reactor. Jaderna energie 3 no.5:139-140 My '57.

1. Radiyevyy institut Akademii nauk S.S.S.R., Leningrad (for Krizanskij, Murin and Preobrazenskij). 2. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha (for Maly).

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19

Cleaning of surfaces contaminated with radioactive isotopes. Zdeněk Dlouhý, Jaroslav Kutzendörfer, and Jaromír Malý (Czech. Acad. Sci., Prague). *Jaderná energie* 3, 65–73(1957).—The surfaces tested were: Al, brass, glass, rubber floor tile, oil varnish, removable varnish (chlorinated poly(vinyl chloride)), wood, canvas (cotton), poly(vinyl chloride) cloth. The contaminating soln. contained 1 to 5 μc./ml. of a mixt. of Ce^{141}, Ce^{144}, Sr^{89}, Y^{91}, Zr^{95}, Nb^{95}, I^{131}, La^{140}, and Ca^{45}. After 0.1 to 1.0 ml. of this was added to the surface, it was dried under an infrared lamp at 15 cm. distance, at 60–70° for 10 min. Glass had to be 1st cleaned with H_2SO_4–CrO_3 and rinsed thoroughly with water, before treatment with the contaminating soln. The activity was detd. with a Geiger counter with a mica window. Decontamination was performed by attaching the samples to a 78-r.p.m. stirrer and rotating them in a beaker contg. the decontaminating agent for 1 min., then for 0.5 min. in fresh decontaminating agent, then rinsing with water for 2 sec. The decontaminating agents were: Distd. water, tap water, HCl, H_2SO_4, HNO_3, HF, H_3BO_3, NH_4Cl, NaCl, Na_3PO_4, Na_2HPO_4, $NaHCO_3$, Na_2CO_3, K_2CO_3, HOAc, $(CO_2H)_2$, tartaric acid, citric acid, the NH_4 salts of the last 4 acids, various detergents, alone or in combination with the other solns., Turkey red oil, Mach's reagent (10% Na_3PO_4, 1–2% Na_2CO_3, 0.3–0.5% Neokal—a detergent), $AgNO_3$, Na_2SO_3, $KMnO_4$ + Na_2SO_3. Some were treated at a series of concns. For each, the % decontamination was calcd. The temp. of decontamination was usually 20° but was 80 or 100° in some cases. The best decontaminating agents were the inorg. acids at concns. from 6*M* to 0.001*M*, which achieved more than 90% decontamination with all surfaces except wood, which was difficult to decontaminate with any soln., because of its porosity. Only I^{131} was easier to remove with alk. solns. Water was poor except for glass, which was cleaned better with cold than with hot water. Detergents were disappointing. H. Newcombe

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CZECH

Oxidation state of arsenic-76 formed by the (n,γ) reaction. Jaromír Malý and Růžena Šimánová (Fys. ústav ČSAV, Prague). *Chem. Listy* 49, 814–20 (1955).—The distribution of As^{76} between valency 3 and 5 formed by the (n, γ) reaction after irradiation of Na cacodylate, Na arsenate, and As_2O_3 and dissoln. in H_2O has been studied. The radioactive As(III) formed by the Szilard-Chalmers reaction is oxidized to As(V) on standing or by boiling in aq. alk. soln. This oxidation is probably owing to the oxidizing substances present in traces in the soln. In the boiling concd. HCl soln. a reversible exchange reaction between As^{3+} and As^{5+} takes place.

B. Brlós

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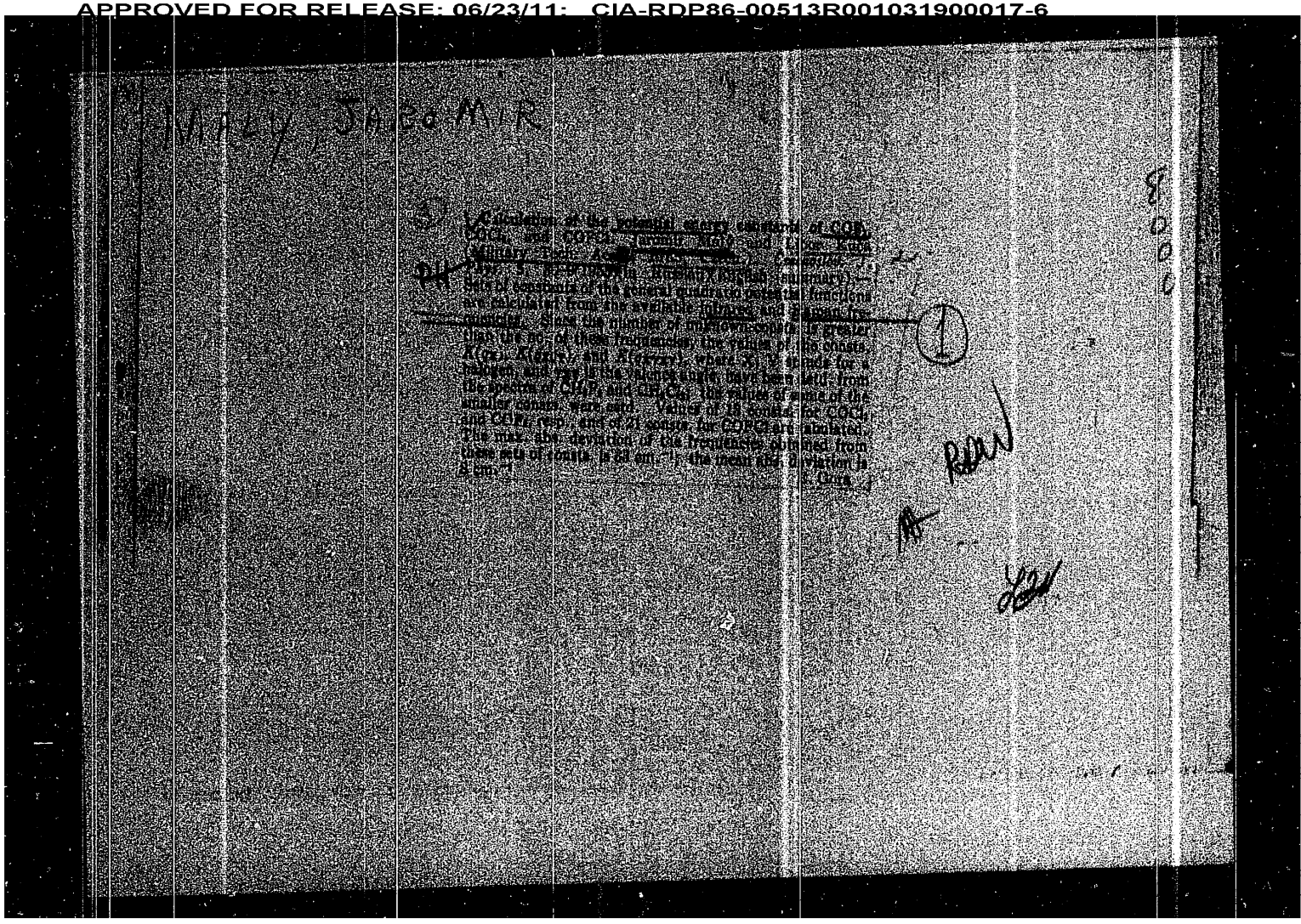

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MALY, J.

Problems of nuclear-power engineering. p. 12. [illegible]
(Ministerstvo strojirenstvi) Praha. Vol. [illegible], no. 1, Jan. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900017-6

Maly, Jaromir

Category : CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the molecule D-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 779

Author : Maly, Jaromir, and Kuca, Libor
Title : Calculation of the Potential-Energy Constants of $COCl_2$, COF_2, and COFCl.

Orig Pub : Ceskosl. casop. fys., 1954, 4, No 6, 638-645

Abstract : The El'yashevich-Stepanov method (Vol'kenshteyn, M.V. Kolebaniya Molekul /Oscillations of Molecules/, I. Moscow, Gostekhizdat, 1949) is used to compute the oscillation frequencies of $COCl_2$ (I), COF_2 (II) and COFCl (III) from values of the potential-energy constants (K_{ij}). A C_{2v} symmetry was assumed for I and II and a C_s symmetry was assumed for III in the calculation of the kinematic coefficients.

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MAAY, T.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Inorganic Chemistry

Structure and decomposition of mercurous acetylide. Jaromír Majer and Libor Kuča (Vojenská Techn. Akad., Brno, Czech.). *Chem. Listy* 47, 1075–9(1953).—By the Fourier analysis of röntgenograms, interatomic distances in the mol. HgC_2 were estd.: C≡C 1.19 ± 0.02 A.; C—Hg 2.17 ± 0.01 A. Thermal decompn. of HgC_2 gives "amorphous" carbon of graphite structure. It is suggested that the explosiveness of HgC_2 is caused by a sudden lengthening of C≡C bond, which gives a shock to the neighboring undecompd. mols. E. Erdős

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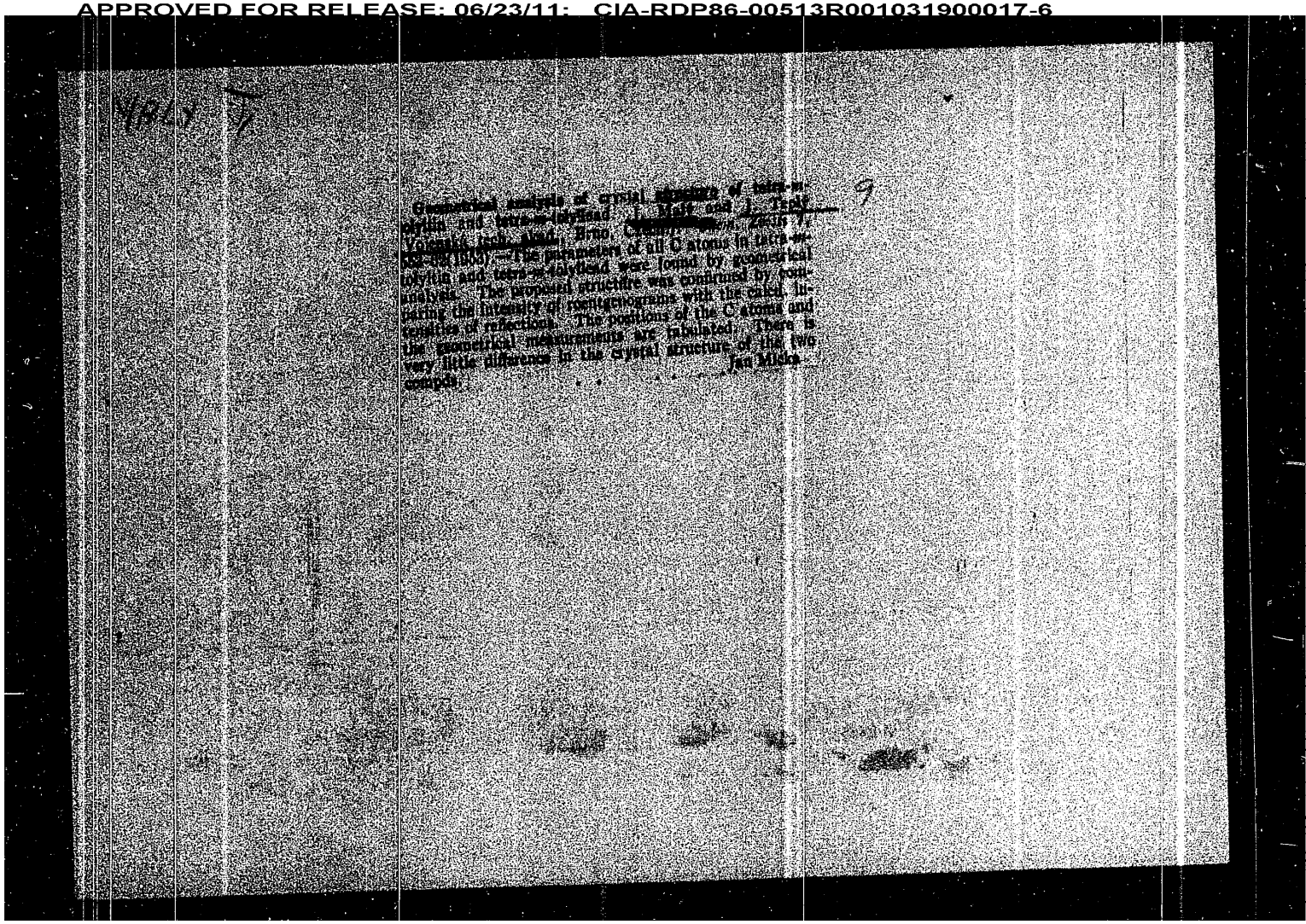

Geometrical analysis of crystal structures of tetra-m-
olylin and tetra-o-tolylmethane. [illegible] and J. Toda
Yokosuka Ichi, Kôgyô, Chem. [illegible] 1950, 53, 7-9.
[illegible] (1949).—The parameters of all C atoms in tetra-m-
olylin and tetra-o-tolylmethane were found by geometrical
analysis. The proposed structure was confirmed by com-
paring the intensity of roentgenograms with the calcd. in-
tensities of reflections. The positions of the C atoms and
the geometrical measurements are tabulated. There is
very little difference in the crystal structure of the two
compds. Jan Micka

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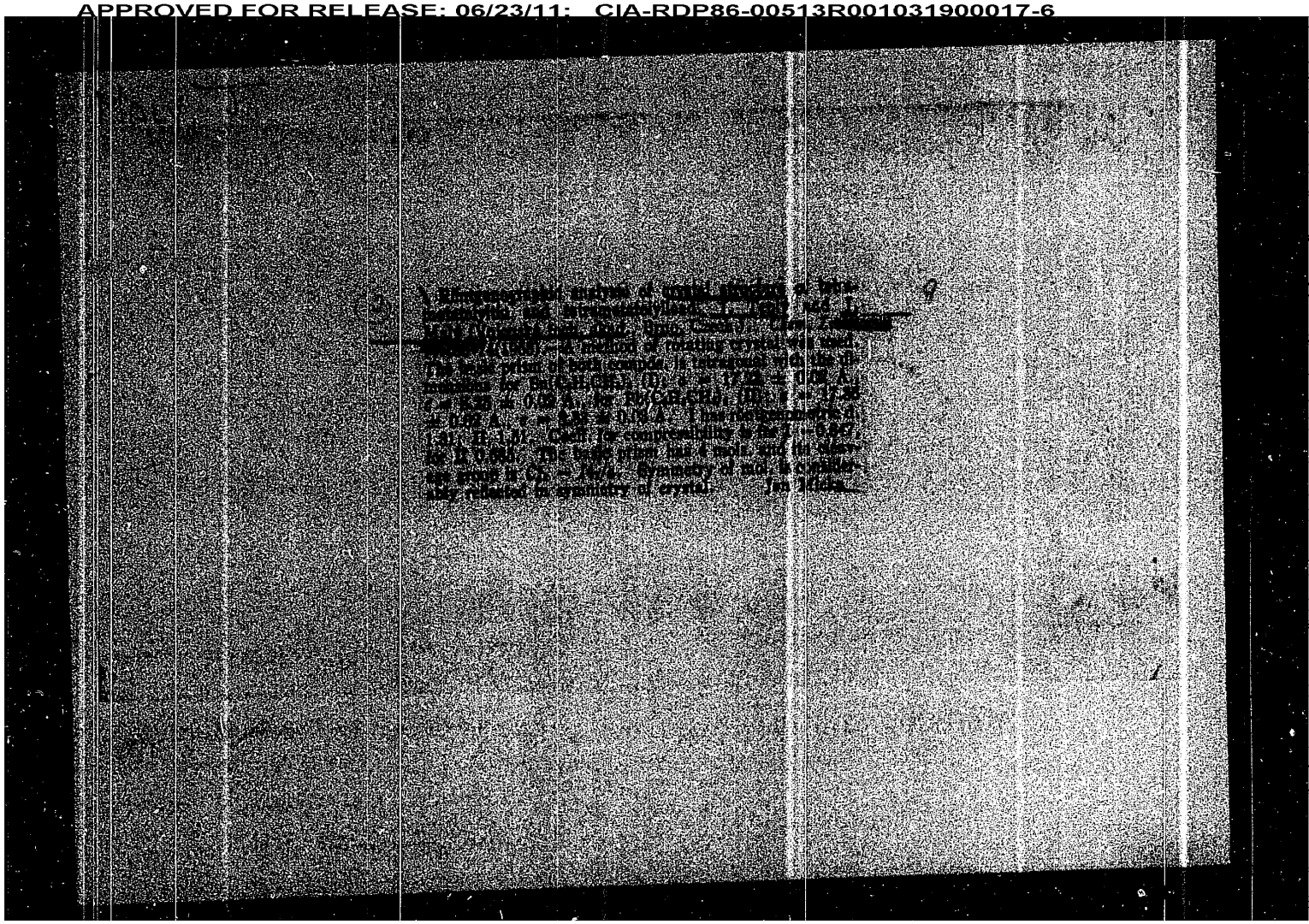

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CZECHOSLOVAKIA

MALY, J.

No affiliation given

Bratislava, Farmaceuticky obzor, No 2 [Feb] 1967, pp 94-95

"Wrapping technology 1966."

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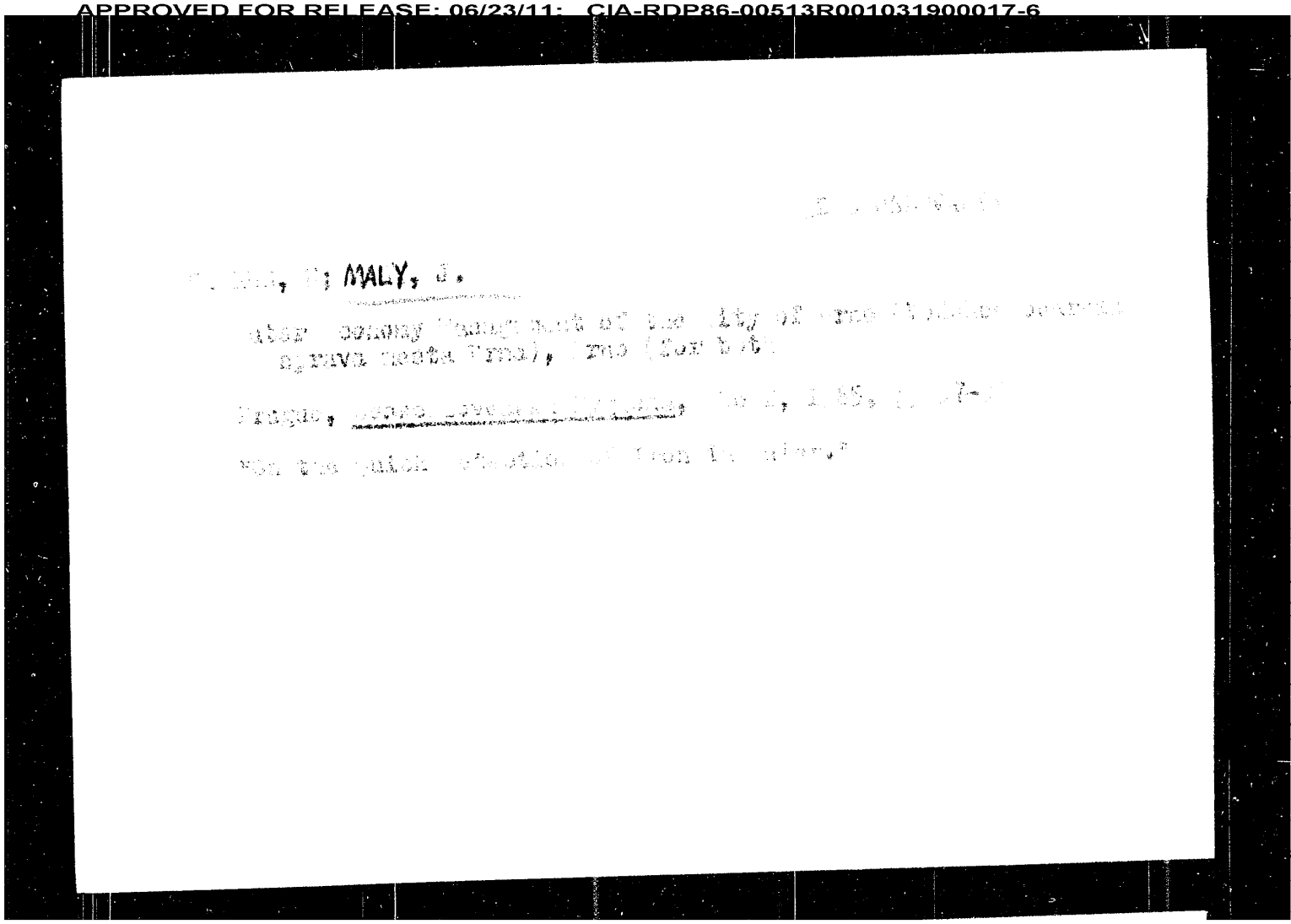

MALY, S.

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CZECHOSLOVAKIA

MALY, J; FABIUS, H.

Water Administration (Vodohospodarska sprava), Brno (for both)

Prague, Ceskoslovenska hygiena, No 6, 1964, pp 367-373

"The Possibility of the Use of Indigocarmine for the Determination of Nitrates."

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